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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/509,907	04/20/2005		Robin Humphries	13636.0002	4261
33649	7590	01/13/2006		EXAM	INER
Mr. Christ				ALI, H	YDER
GODWIN GRUBER, LLP 1201 Elm Street, Renaissance Tower				ART UNIT	PAPER NUMBER
DALLAS, TX 75270				3747	

DATE MAILED: 01/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		SP
	Application No.	Applicant(s)
	10/509,907	HUMPHRIES, ROBIN
Office Action Summary	Examiner	Art Unit
	HYDER ALI	3747
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on		
	_· action is non-final.	
3) Since this application is in condition for allowar		secution as to the merits is
closed in accordance with the practice under E	•	
Disposition of Claims	•	
4)⊠ Claim(s) <u>1,2,6-10,24-30,32,33 and 36-39</u> is/are	e pending in the application.	
4a) Of the above claim(s) is/are withdraw	• • • • • • • • • • • • • • • • • • • •	
5) Claim(s) is/are allowed.		
6) Claim(s) 1,2,6-10,24-30,32,33 and 36-39 is/are	e rejected.	
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/o	r election requirement.	
Application Papers		
9)⊠ The specification is objected to by the Examine	r.	
10)⊠ The drawing(s) filed on <u>28 September 2004</u> is/a	are: a)⊠ accepted or b)⊡ objec	ted to by the Examiner.
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).
1. Certified copies of the priority document		
2. Certified copies of the priority document	• •	
3. Copies of the certified copies of the prior	•	ed in this National Stage
application from the International Bureau	, ,,	J
* See the attached detailed Office action for a list	or the certified copies not receive	a.

Attachment(s)

1) Notice of

1)	K)	Notice	of Re	ferences	Cited	(PT	O-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 8/30/05.

4) 🔲	Interview Summary (PTO-413)
	Paper No(s)/Mail Date

5) Notice of Informal Patent Application (PTO-152)

6) Other: ____.

DETAILED ACTION

Specification

This application does not contain an abstract of the disclosure as required by 37 CFR 1.72(b). An abstract on a separate sheet is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1,2,6-10,24-30,32,33,36-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Collins (US 3,945,358) in view of Koehler (US 2,173,303).

Collins discloses the claimed invention except for the particular form of slot claimed in claims 1 and 36. However, Koehler discloses referring to Figure 4, in which

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the radius at the narrow portion appears relatively small. It would have been obvious to a person having ordinary skill in the art to modify Collins by employing a slight convexity as taught by Koehler in order to provide Collins engine with the claimed form of slot. Furthermore, the dependent claims 2,6-10,24-30,32,33,37-39 considered to be an obvious matter of design choice because dependent claims describe simple constructional arrangements which would lie with the normal work of the skilled person.

Claims 1,2,6-10,24-30,32,33,36-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Duncalf (US 5,553,574) in view of Koehler (US 2,173,303).

Duncalf discloses the claimed invention except for the particular form of slot claimed in claims 1 and 36. However, Koehler discloses referring to Figure 4, in which the radius at the narrow portion appears relatively small. It would have been obvious to a person having ordinary skill in the art to modify Duncalf by employing a slight convexity as taught by Koehler in order to provide Duncalf engine with the claimed form of slot. Furthermore, the dependent claims 2,6-10,24-30,32,33,37-39 considered to be an obvious matter of design choice because dependent claims describe simple constructional arrangements which would lie with the normal work of the skilled person.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HYDER ALI whose telephone number is (571) 272-4836. The examiner can normally be reached on M-F (8:30-5:00).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, HENRY YUEN can be reached on (571) 272-4856. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hyder Ali